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♥Title: CA2322406AA: PREVENTION OF DEADLOCKS AND LIVELOCKS IN

LOSSLESS, BACKPRESSURED PACKET NETWORKS[French]

Congestion controlling method for packet telecommunication network. PDerwent Title:

involves transmitting only packets having priority level equal to or greater than

feedback value, from sending node to receiving node [Derwent Record]

CA Canada 

AA (See also: CA2322406C) 

KAROL, MARK JOHN; United States of America 

GOLESTANI, S. JAMALODDIN; United States of America

LEE, DAVID; United States of America

LUCENT TECHNOLOGIES, INC. United States of America 

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Published / Filed: 2001-04-13 / 2000-10-05

> CA2000002322406 **₽**Application

Number:

Advanced: H04J 1/16; H04L 12/24; H04L 12/56;

Core: H04J 1/00; more...

*®***ECLA Code:** H04L12/56D;

1999-10-13 US1999000159147P Priority Number:

2000-07-24 US200000624085

A packet communication network is arranged so that a PAbstract:

> node having packets to se nd to the receiving node, selectively allowing only certain packets to be considered eligible for transmission. The backpressure is arranged to be lossless, and to avoid network deadlocks and livelocks. The transmission of a packet p from a sending node X~ to a receiving node R~, via a link ~, is controlled by (a) sending from the receiving node R~ to the upstream node X~ a feedback value f~ that assures that there will be room in the buffer in the receiving node R~ to store packets subsequently received from the upstream node X~; (b) assigning a priority level .lambda.p to packe ts stored in the buffer of the receiving node R~; and (c) transmitting from the sending node X~ to

backpressure or feedback signal is sent from a receiving node to a

the receiving node R~, only those stored packets at X~ whose priority level lambda.p exceeds the feedback value f~ received from the receiving node R~. The assigning step can be

accomplished by assigning a level that is less than or equal to D (the maximum number of hops that a packet must traverse through said network from node X~ to node R~) minus the number of hops remaining between the receiving node R~ and the destination, and is further arranged such that the priorityl evel .lambda.p assigned to packets stored in the buffer at R~ is based upon the destination to which the packets are to be transmitted, and is the same (referred to as .lambda.d ) for all packets intended for the same destination. The feedback value f~ sent from a receiving node R~ to a sending node X~, which represents the lowest priority level of packe ts that the receiving node R~ could accept without violating any of the B i buffer threshold constraints, is determined by first setting in the

buffer at the receiving node R~ thresholds B i that limit the

High Vie × Im:

Resolution

maximum amount of space for packets with priority levels .lambda.d less than or equal to i. At all times, all B i buffer threshold constraints must be satisfied. The receiving node R~ thereafter monitors the priority levels ~d of arriving and departing packets, and the increasing of priority levels .lambda.p of previously-stored packets (so that all packets destined for a given destination d have the sam e priority level .lambda.d), and thus keeps track of the total space in the buffer at R ~ occupied by packets of various priority levels .lambda.d.

### ♥INPADOC Legal Status:

Gazette date	Code	Description (remarks) List all possible codes for CA
2003-04-03	EEER +	Examination request (2000-10-05)
2000-10-05	EEER +	Examination request

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PDF	Publication	Pub. Date	Filed	Title	
Z	<u>US6859435</u>	2005-02-22	2000-07-24	Prevention of deadlocks and livelocks in lossless, backpressured packet networks	
	CA2322406C	2007-01-16		PREVENTION OF DEADLOCKS AND LIVELOCKS IN LOSSLESS, BACKPRESSURED PACKET NETWORKS	
		PREVENTION OF DEADLOCKS AND LIVELOCKS IN LOSSLESS, BACKPRESSURED PACKET NETWORKS			
31	3 family members shown above				

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Р	DF	Patent	Pub.Date	Inventor	Assignee	Title
1	¥	US7500012	2009-03-03	Jeffries; Clark D.	International Business Machines Corporation	Method for controlling dataflow to a central system from distributed systems

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